

# FIG. 1

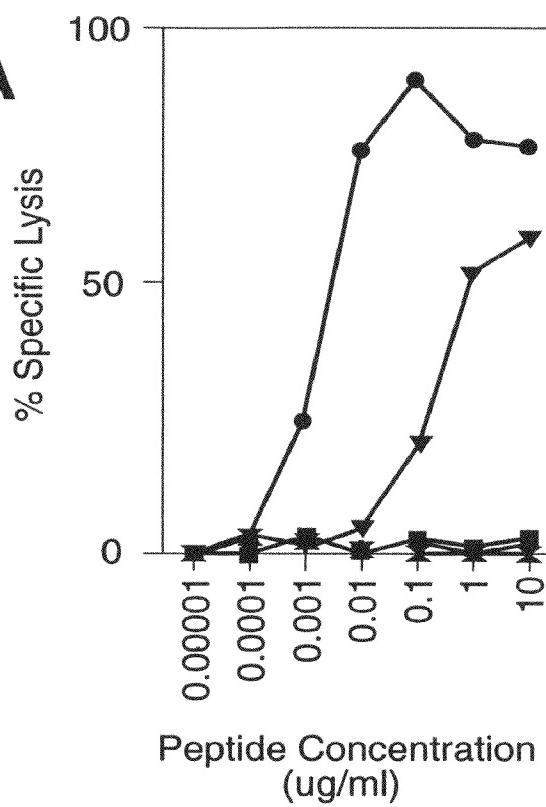
1	AGCAGACAGGGACTCTCATTAAGGAAGG	TGTCCCTGTGCCCTGACCCTACAAGATGCCA	59
60	AGAGAAGATGCTCACTTCACTGGTTAC	CCCAAGAAAGGGCACGGCCACTCTTACACC	119
3	ArgGluAspAlaHisPheIleTyrGlyTyr	ProLySGLyHisGlyHisseryrThr	22
120	ACGGCTGAAGGGCGCTGGGATGGCATT	CTGACAGTGATCTGGGACTCTTACTGCTC	179
23	ThrAlaGluGluAlaAlaGlyIle	LeuThrValIleLeuGlyValLeuLeuLeu	42
180	ATCGGCTGTGGTATTGTTAGAACGAAAT	GGATAACAGAGCCCTTGATGGATAAAAGTC	239
43	IleGlyCysTrpTyrCysArgArgAsn	GlyTyrArgAlaLeuMetAspLysSerLeu	62
240	CATGGTGGCACTCAATGTGCCTAACAAA	AGATGCCACAAAGAACGGTTGATCATCGG	299
63	HisValGlyThrGlnCysAlaLeuThrArg	ArgCysProGlnGluGlyPheAspHisArg	82
300	GACAGCAAAGTGTCTTCAAGAGAAAAAC	TGTGAACCTGTGGTTCCAATGCTCACCT	359
83	AspSerLysValSerLeuGlnGluLysAsn	CysGluProValValProAsnAlaProPro	102
360	GCTTATGAGAAACTCTGCAGAACAGTCA	CCACCA CCTTATTCACTTAAGAGCCAGCG	419
103	AlaTyrGluLysLeuSerAlaGluGlnSer	ProProProTyrsSerPro	
420	AGACACCTGAGACATGCTGAAATTATTTCT	CTCACACACTTTTGCTGAATTAAATACAGAC	479
480	ATCTAATGTTCTCCTTGGAAATGGTAGG	AAAAATGCAAGCCATCTCTAAATAATAAGTC	539
540	AGTGTAAAAATTAGTGGTCCGGCTAGCA	GTACTAAATCATGTGAGGAATGTGAGAAA	599
600	TATTAATTTGGAAAACCTCCATCAATAAT	GTTGCAATGCAATGATACTATCTGTGCCAGA	659
660	GGTAATGTTAGTAAATCCATGGTGTATT	TCTGAGAGACAAATTCAAGTGGGTATTCT	719
720	GGGCCATCCAAATTCTTACTTGAATAAT	TTGGCTAATAAACAAACTAGTCAGGTTTCG	779
780	AACCTTGACCGACATGAACCTGACAGAA	TTGTTCCAGTACTATGGAGTGGCTCACAAAG	839
840	GATACTTTACAGTTAACGAAAGGGTTG	ACTGGCCATTATCTGATCAAGAACATGT	899
900	CAGGAATGTCCTTGTGCTCTAAATCT	ATTATACTACAATAATAATTGTAAAGATC	959
960	CTATAGCTCTTTTTGAGATGGAGTT	CGCTTTGTTGCCAGGTGGAGTGCATG	1019
1020	GCGCGATCTGGCTACCCATAACCTCCGCC	TCCCAGGTTCAAGCAATTCTCTGCTTAG	1079
1080	CCTCCTGAGTAGCTGGGATTACAGGGTGC	GCCACTATGCCCTGACTTAATTTTGTAAGTTT	1139
1140	AGTAGAGACGGGGTTCTCCATGGTGTCA	GGCTGGTCTCAAACCTGACCTCAGGTGA	1199
1200	TCTGCCCGGCTCAGCCTCCCCAAAGTGCTG	AATTACAGGGTGAAGCCACCGCTGGCT	1259
1260	GGATCCCTATATCTTAGGTAAGACATAAC	GCAGTCTAAATTACATTCACTTCAAGGCTC	1319
1320	AATGCTTAACTAAATGACAAGTATT	CTACTAAACCAAAATTGGTAAAGGATT	1379
1380	AAATAAGTAAAAGCTACTATGTACTGCCT	AGTGTGTGATGCCCTGTACTGCCCTAAATG	1439
1440	TACCTATGGCAATTAGCTCTGGTTT	CCAAATCCCTCTCACAAAGATGTGAGAAG	1499
1500	AAATCATAAAGGATCAGAGATTCTGAAAAA	AAAAAA	1559

08/4/17, 174

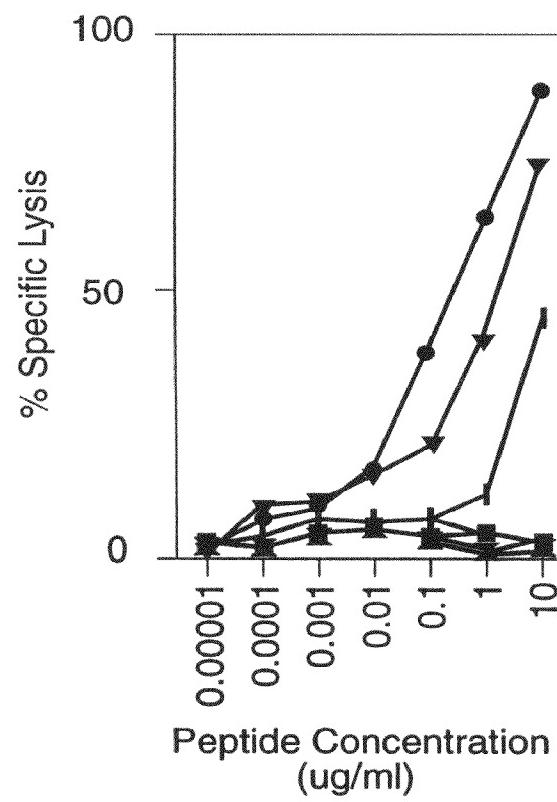
5844075

520 326

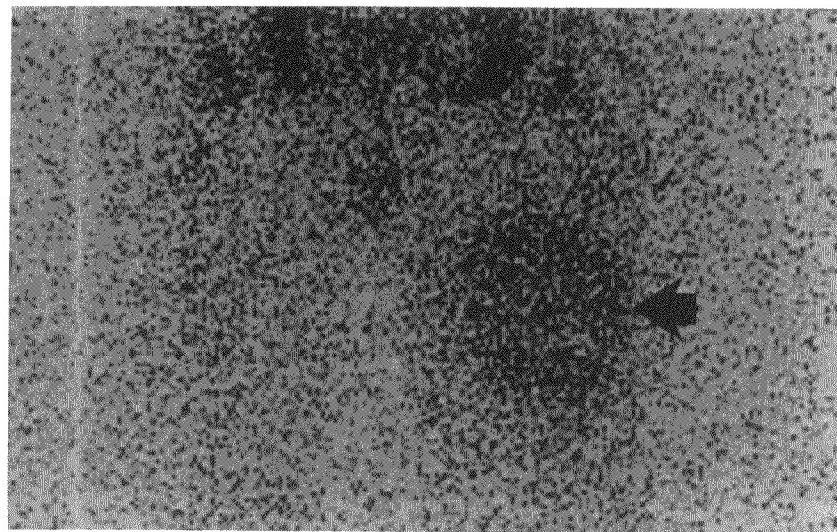
**FIG. 2A**



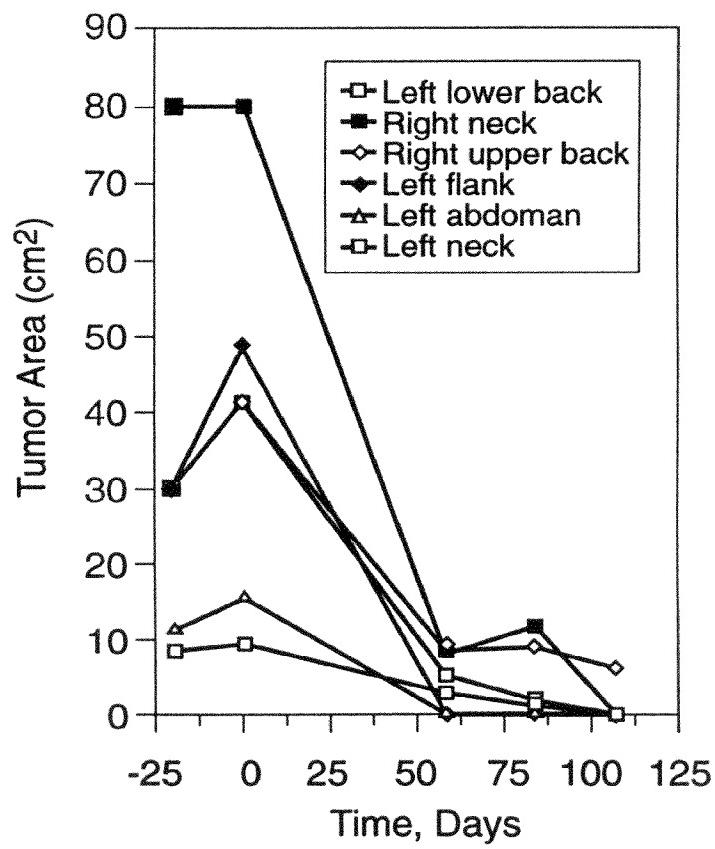
**FIG. 2B**



**FIG. 3A**



**FIG. 3B**



## FIG. 4A

GTCGACGGCC	ATTACCAATC	GCGACCGGGA	AGAACACA <u>AT</u>	40
GGATCTGGTG	CTAAAAAGAT	GCCTTCTTCA	TTTGGCTGTG	80
ATAGGTGCTT	TGCTGGCTGT	GGGGGCTACA	AAAGTACCCA	120
GAAACCAGGA	CTGGCTTGGT	GTCTCAAGGC	AACTCAGAAC	160
CAAAGCCTGG	AACAGGCAGC	TGTATCCAGA	GTGGACAGAA	200
GCCCAGAGAC	TTGACTGCTG	GAGAGGTGGT	CAAGTGTCCC	240
TCAAGGTCAG	TAATGATGGG	CCTACACTGA	TTGGTGCAAA	280
TGCCTCCTTC	TCTATTGCCT	TGAACCTTCCC	TGGAAGCCAA	320
AAGGTATTGC	CAGATGGCA	GGTTATCTGG	GTCAACAATA	360
CCATCATCAA	TGGGAGCCAG	GTGTGGGAG	GACAGCCAGT	400
GTATCCCCAG	GAAACTGACG	ATGCCTGCAT	CTTCCCTGAT	440
GGTGGACCTT	GCCCATCTGG	CTCTTGGTCT	CAGAAGAGAA	480
GCTTGTTTA	TGTCTGGAAG	ACCTGGGCC	AATACTGGCA	520
ATTCTAGGG	GGCCCAGTGT	CTGGGCTGAG	CATTGGGACA	560
GGCAGGGCAA	TGCTGGGCAC	ACACACCATG	GAAGTGACTG	600
TCTACCATCG	CCGGGGATCC	CGGAGCTATG	TGCCTCTTGC	640
TCATTCCAGC	TCAGCCTTCA	CCATTACTGA	CCAGGTGCCT	680
TTCTCCGTGA	GCGTGTCCC	GTTGCGGGCC	TTGGATGGAG	720
GGAACAAGCA	CTTCCTGAGA	AATCAGCCTC	TGACCTTGC	760
CCTCCAGCTC	CATGACCCCA	GTGGCTATCT	GGCTGAAGCT	800
GACCTCTCCT	ACACCTGGGA	CTTGAGAC	AGTAGTGGAA	840
CCCTGATCTC	TCGGGCACTT	GTGGTCACTC	ATACTTACCT	880
GGAGCCTGGC	CCAGTCACTG	CCCAGGTGGT	CCTGCAGGCT	920
GCCATTCCCTC	TCACCTCCTG	TGGCTCCTCC	CCAGTTCCAG	960
GCACCAACAGA	TGGGCACAGG	CCAAC TGCA	AGGCCCTAA	1000
CACCAACAGCT	GGCCAAGTGC	CTACTACAGA	AGTTGTGGGT	1040
ACTACACCTG	GTCAGGCGCC	AACTGCAGAG	CCCTCTGGAA	1080
CCACATCTGT	GCAGGTGCCA	ACCACTGAAG	TCATAAGCAC	1120

## FIG. 4B

TGCACCTGTG CAGATGCCAA CTGCAGAGAG CACAGGTATG 1160  
ACACCTGAGA AGGTGCCAGT TTCAGAGGTC ATGGGTACCA 1200  
CACTGGCAGA GATGTCAACT CCAGAGGCTA CAGGTATGAC 1240  
ACCTGCAGAG GTATCAATTG TGGTGCTTTC TGGAACCACA 1280  
GCTGCACAGG TAACAACATAC AGAGTGGGTG GAGACCACAG 1320  
CTAGAGAGCT ACCTATCCCT GAGCCTGAAG GTCCAGATGC 1360  
CAGCTCAATC ATGTCTACGG AAAGTATTAC AGGTTCCCTG 1400  
GGCCCCCTGC TGGATGGTAC AGCCACCTTA AGGCTGGTGA 1440  
AGAGACAAGT CCCCCCTGGAT TGTGTTCTGT ATCGATATGG 1480  
TTCCTTTTCC GTCACCCCTGG ACATTGTCCA GGGTATTGAA 1520  
AGTGCCGAGA TCCTGCAGGC TGTGCCGTCC GGTGAGGGGG 1560  
ATGCATTTGA GCTGACTGTG TCCTGCCAAG GCAGGGCTGCC 1600  
CAAGGAAGCC TGCATGGAGA TCTCATCGCC AGGGTGCCAG 1640  
CCCCCTGCCA AGCGGCTGTG CCAGCCTGTG CTACCCAGCC 1680  
CAGCCTGCCA GCTGGTTCTG CACCAGATAAC TGAAGGGTGG 1720  
CTCGGGGACA TACTGCCTCA ATGTGTCTCT GGCTGATACC 1760  
AACAGCCTGG CAGTGGTCAG CACCCAGCTT ATCATGCCTG 1800  
GTCAAGAAGC AGGCCTTGGG CAGGTCCGC TGATCGTGGG 1840  
CATCTTGCTG GTGTTGATGG CTGTGGTCCT TGCATCTCTG 1880  
ATATATAGGC GCAGACTTAT GAAGCAAGAC TTCTCCGTAC 1920  
CCCAGTTGCC ACATAGCAGC AGTCACTGGC TGCGTCTACC 1960  
CCGCATCTTC TGCTCTTGTG CCATTGGTGA GAACAGCCCC 2000  
CTCCTCAGTG GGCAGCAGGT CTGAGTACTC TCATATGATG 2040  
CTGTGATTTT CCTGGAGTTG ACAGAAACAC CTATATTCC 2080  
CCCAGTCTTC CCTGGGAGAC TACTATTAAC TGAAATAAAT 2120  
ACTCAGAGCC TGAAAAAAA TAAAAAAA AAAAAAAA 2160  
AAAAAAAAAA AA 2172

## FIG. 5A

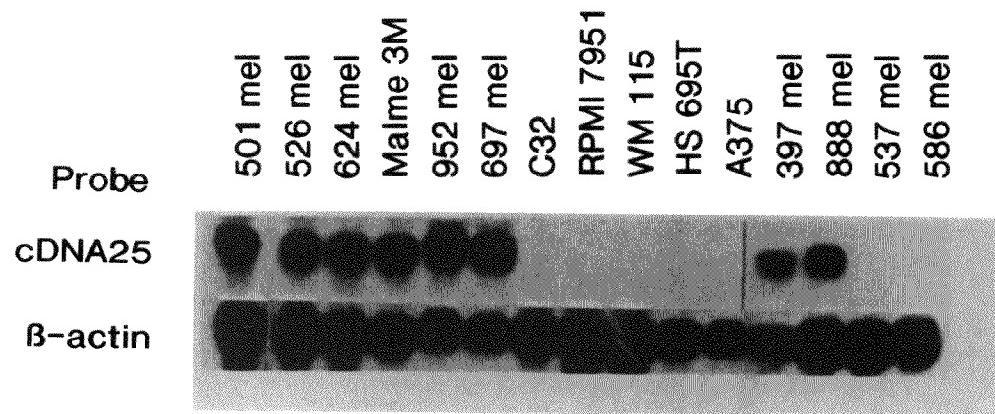
1 MDLVLKRCLL HLAVIGALLA VGATKVPRNQ DWLGVSRLQR TKAWNRLQYP  
51 EWTEAQRLDC WRGGQVSLKV SNDGPTLIGA NASFSIALNF PGSQKVLPDG  
101 QVIWVNNTII NGSQVWGGQP VYPQETDDAC IFPDGGPCPS GSWSQKRSFV  
151 YVWKTWGQYW QFLGGPVSGL SIGTGRAMLG THTMEVTVYH RRGSRSYVPL  
201 AHSSSAFTIT DQVPFSVSVS QLRALDGGNK HFLRNQPLTF ALQLHDPSGY  
251 LAEADLSYTW DFGDSSGTLLI SRALVVTHTY LEPGPVTAQV VLQAAIPLTS  
301 CGSSPVPGTT DGHRPVTAEAP NTTAGQVPTT EVVGTTPGQA PTAEPSGTTS  
351 VQVPTTEVIS TAPVQMPTAE STGMTPEKVP VSEVMGTTLA EMSTPEATGM  
401 TPAEVSIIVL SGTAAQVTT TEWVETTARE LPIPEPEGPD ASSIMSTESI  
451 TGSLGPLLDG TATLRLVKRQ VPLDCVLYRY GSFSVTLDIV QGIESAEILQ  
501 AVPSGEGLDAF ELTVSCQGGL PKEACMEISS PGCQPPAQRL CQPVLPSAC  
551 QLVLHQILKG GSGTYCLNVS LADTNSLAVV STQLIMPGQE AGLGQVPLIV  
601 GILLVLMMAVV LASLIYRRRL MKQDFSVVPQL PHSSSHWLRL PRIFCSCP  
651 ENSPLLSGQQ V

## FIG. 5B

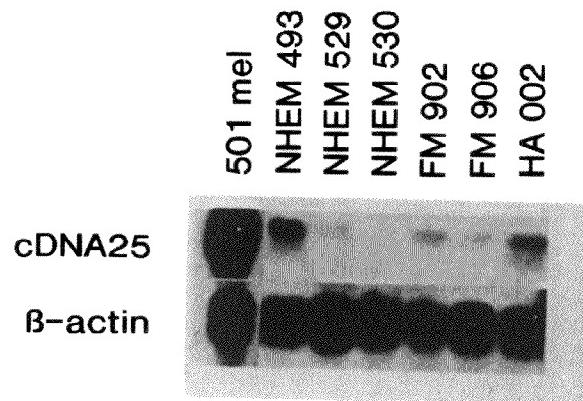
Pm <sub>e</sub> 117	M-----V-----Q-----P-----VPGILLT-----LLSGQQV
ME20	M-----V-----Q-----L-----.....-----
gp100	M-----V-----Q-----L-----.....-----
cDNA25FL	M-----F-----Q-----L-----.....-----
cDNA25TR	Q-----L-----.....-----PPQWAAGLSTLI

1      162      236      274      588      649

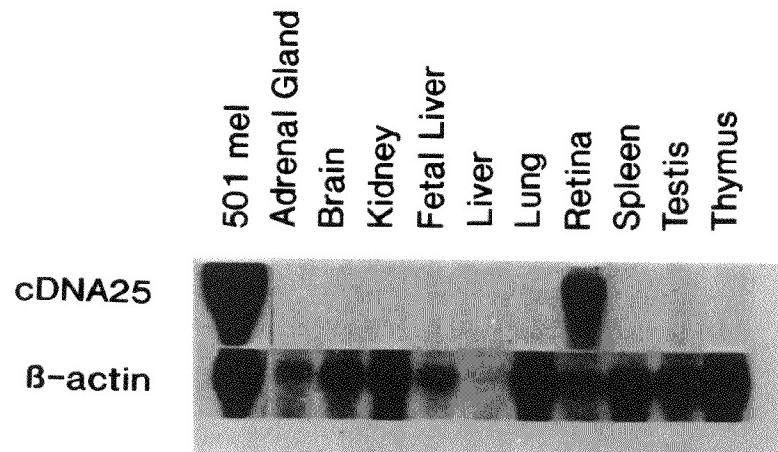
**FIG. 6A**



**FIG. 6B**



**FIG. 6C**



# FIG. 7A

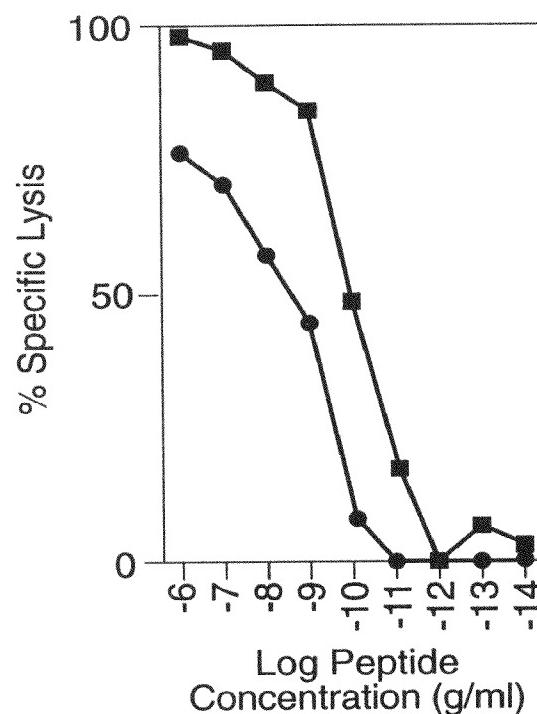
1	MDLVLKRCLL HLAVIGALLA VGATKVPRNQ DWLGVRQLR TKAWNRLQYD
	D3-----
	D5-----
	D4-----
	C4-----
51	EWTEAQRLDC WRGGQVSLKV SNDGPTLIGA NASFSIALNF PGSQKVLPDG
	D3-----
	D5-----
	D4-----
	C4-----
101	QVIWVNNTII NGSQVWGGQP VYPQETDDAC IFPDGGPCPS GSWSQKRSFV
	D3-----
	D5-----
	D4-----
	C4-----
151	YVWKWTWGQYW QVLGGPVSGL SIGTGRAMLG THTMEVTVYH RRGSRSYVPL
	D3----D3
	D5----- D5
	D4-----
	C4-----
201	AHSSSAFTIT DQVPFSVSVS QLRALDGNNK HFLRNQPLTF ALQLHDPSGY
	C4-----
	25TR-----
251	LAEADLSYTW DFGDSSGTLLI SRALVVTHTY LEPGPVTAQV VLQAAIPLTS
	C4----- C4
	25TR-----
301	CGSSPVPGTT DGHRTPTAEAP NTTAGQVPTT EVVGTPGQA PTAEPSGTTS
	25TR-----
351	VQVPTTEVIS TAPVQMPMPE STGMTPEKVP VSEVMGTTLA EMSTPEATGM
	25TR-----
401	TPAEVSIVVL SGTTAAQVTT TEWVETTARE LPIPEPEGPD ASSIMSTESI
	25TR-----
451	TGSLGPLLDG TATLRLVKRQ VPLDCVLYRY GSFSVTLDIV QGIESAEILQ
	25TR-----
501	AVPSGEGLDAF ELTVSCQGGL PKEACMEISS PGCQPPAQRL CQPVLPSPAC
	25TR-----
551	QLVLHQILKG GSGTYCLNVS LADTNSLAVV STQLIMPGQE AGLGQVPLIV
	25TR-----
601	GILLVLMMAVV LASLIYRRRL MKQDFSVVPQL PHSSSHWLRL PRIFCSCPPIG
	25TR-----
651	ENSPLLGSQQ V
	25TR----- -25TR

APPROVED [Signature]  
FBI - CLARKSBURG  
CRAFTSMAN

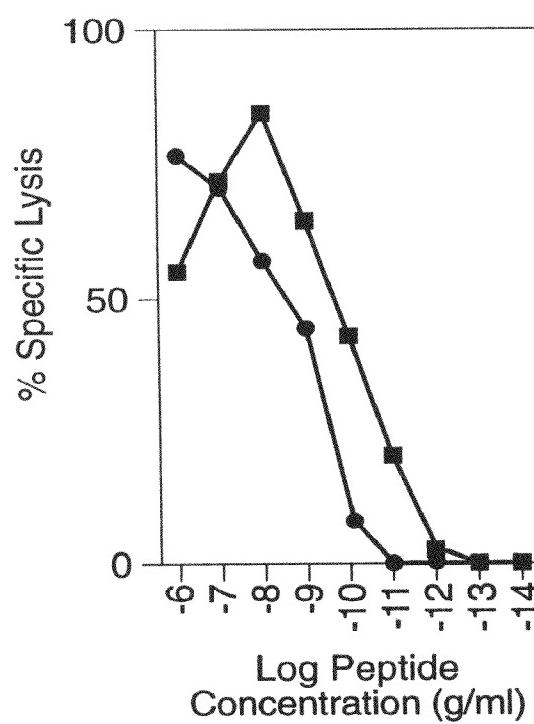
## FIG. 7B

DNA fragment	620-1	620-2	660-1	TIL	1143	1200
D3	-	-	-	-	-	-
D5	-	+	-	-	-	+
D4	-	+	-	-	-	+
C4	+	+	+	+	+	+
25TR	-	-	+	+	+	+

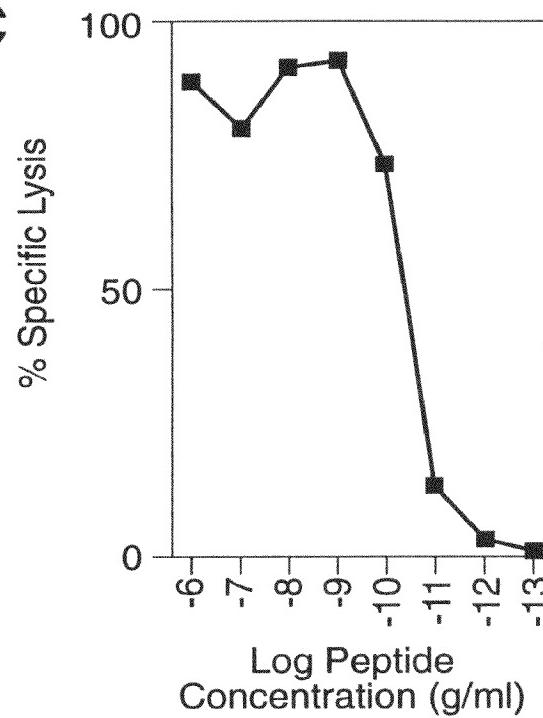
**FIG. 8A**



**FIG. 8B**



**FIG. 8C**



**FIG. 8D**

